Working Together for the Public Interest
US Army Corps of Engineers®
Charleston District

Transportation Issues

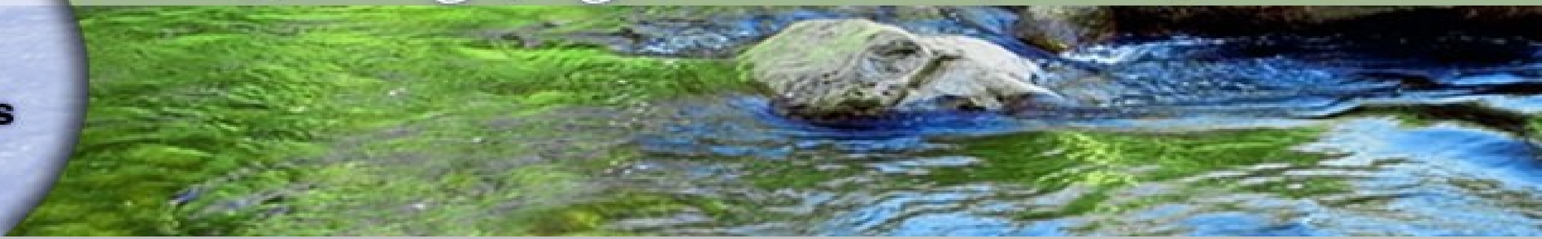
Richard Darden

Steve Brumagin

U.S. Army Corps of Engineers

Berry Still

South Carolina Department of Transportation



Presentation Outline

√ County programs for transportation improvements

- i.e., Dorchester & York Counties: *Pennies for Progress*

Presentation Outline

√ County programs for transportation improvements

i.e., Dorchester, York Counties *Pennies for Progress*

√ Scoping projects to minimize environmental permitti

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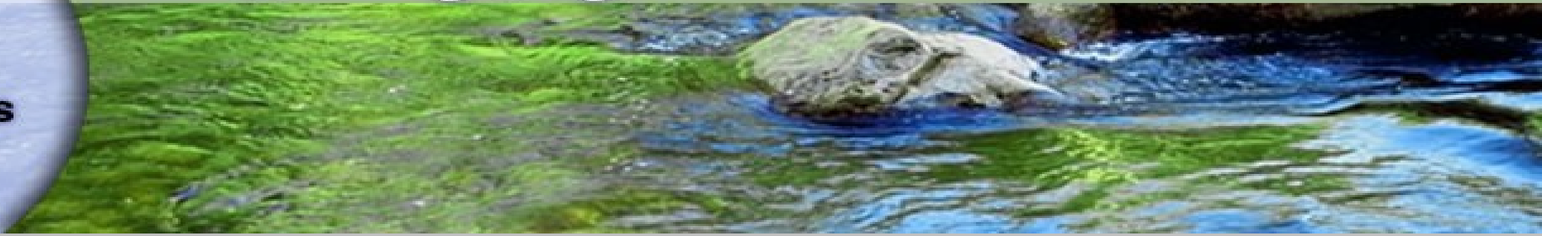
√ County programs for transportation improvements

i.e. Dorchester, York Counties *Pennies for Progress*

√ Scoping projects to minimize environmental permitti

√ Design to meet the lowest possible permit threshold

(we'll get the best possible project, so go ahead this way)



Presentation Outline

√ County programs for transportation improvements

i.e., Dorchester, York Counties *Pennies for Progress*

√ Scoping projects to minimize environmental permitti

√ Design to meet the lowest possible permit threshold

√ Get agency help…comments, field reviews, etc.

Streamlining

Simplified Route of Typical Permit Applicatio

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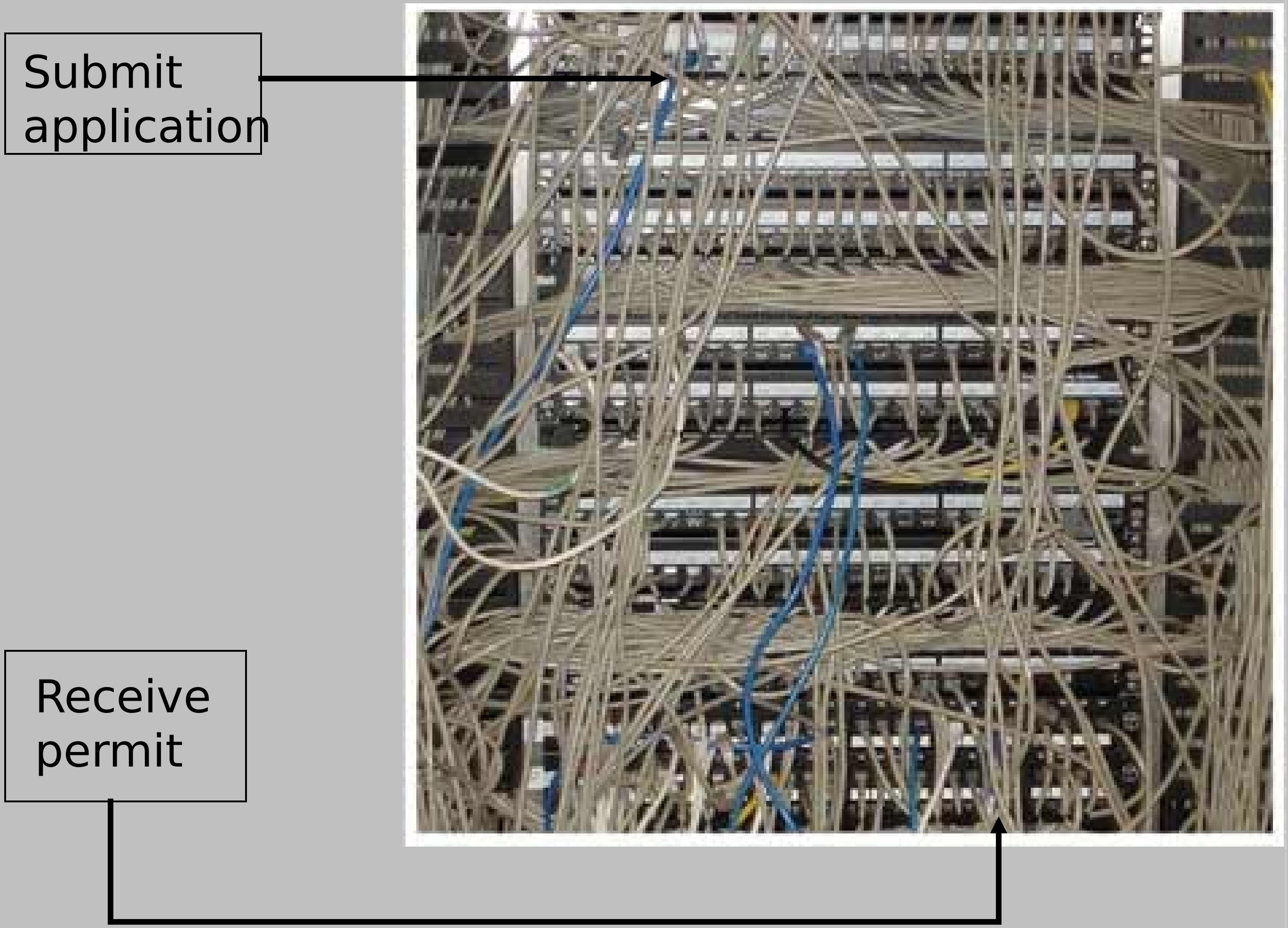
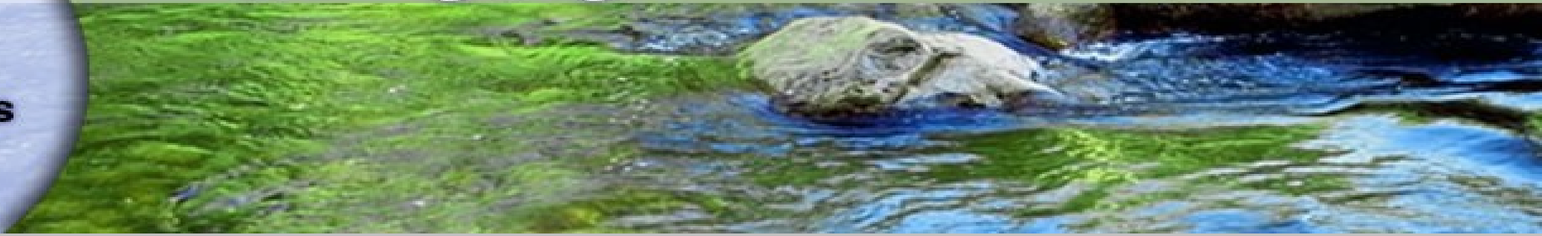


Submit application

Receive permit



Agency Transportation Liaison Program

√ **Cooperative inter-agency agreements**

√ **Corps / FHWA / SCDOT**

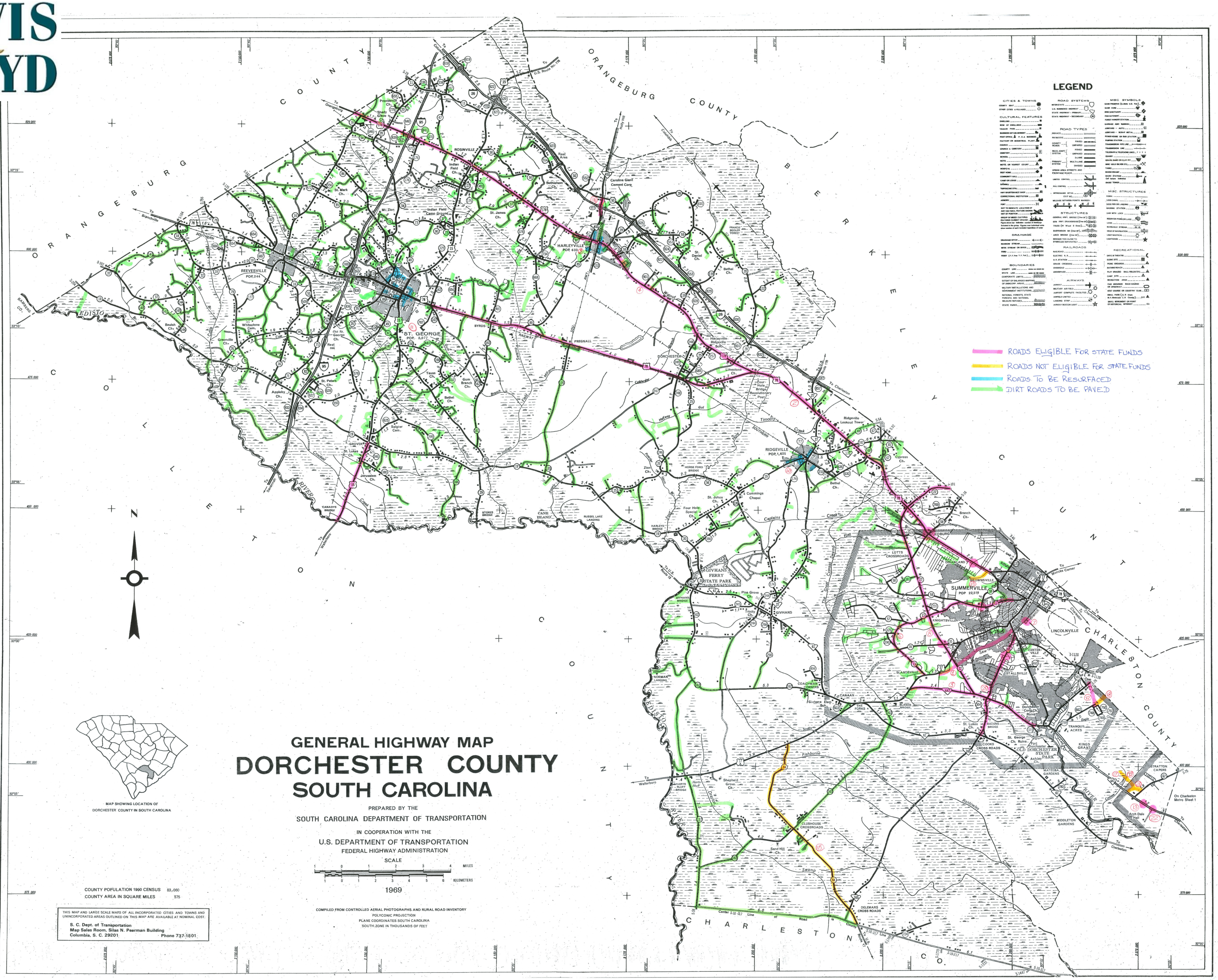
√ **Similar agreements with other agencies**

Agency Transportation Liaison Program

- √ **Meet monthly to review projects**

- √ **Attend project field reviews as a group**
  i.e., Corps
    DHEC
    DNR
    DOT
    EPA
    FWS
    SCDAH (Dept. Archives & History)

- √ **Benefit from group expertise and experience**



GENERAL HIGHWAY MAP
DORCHESTER COUNTY
SOUTH CAROLINA

PREPARED BY THE
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE

1969

COMPILED FROM CONTROLLED AERIAL PHOTOGRAPHS AND RURAL ROAD INVENTORY
POLYCONIC PROJECTION
PLANE COORDINATES SOUTH CAROLINA
SOUTH ZONE IN THOUSANDS OF FEET

MAP SHOWING LOCATION OF
DORCHESTER COUNTY IN SOUTH CAROLINA

COUNTY POPULATION 1990 CENSUS 83,060
COUNTY AREA IN SQUARE MILES 575

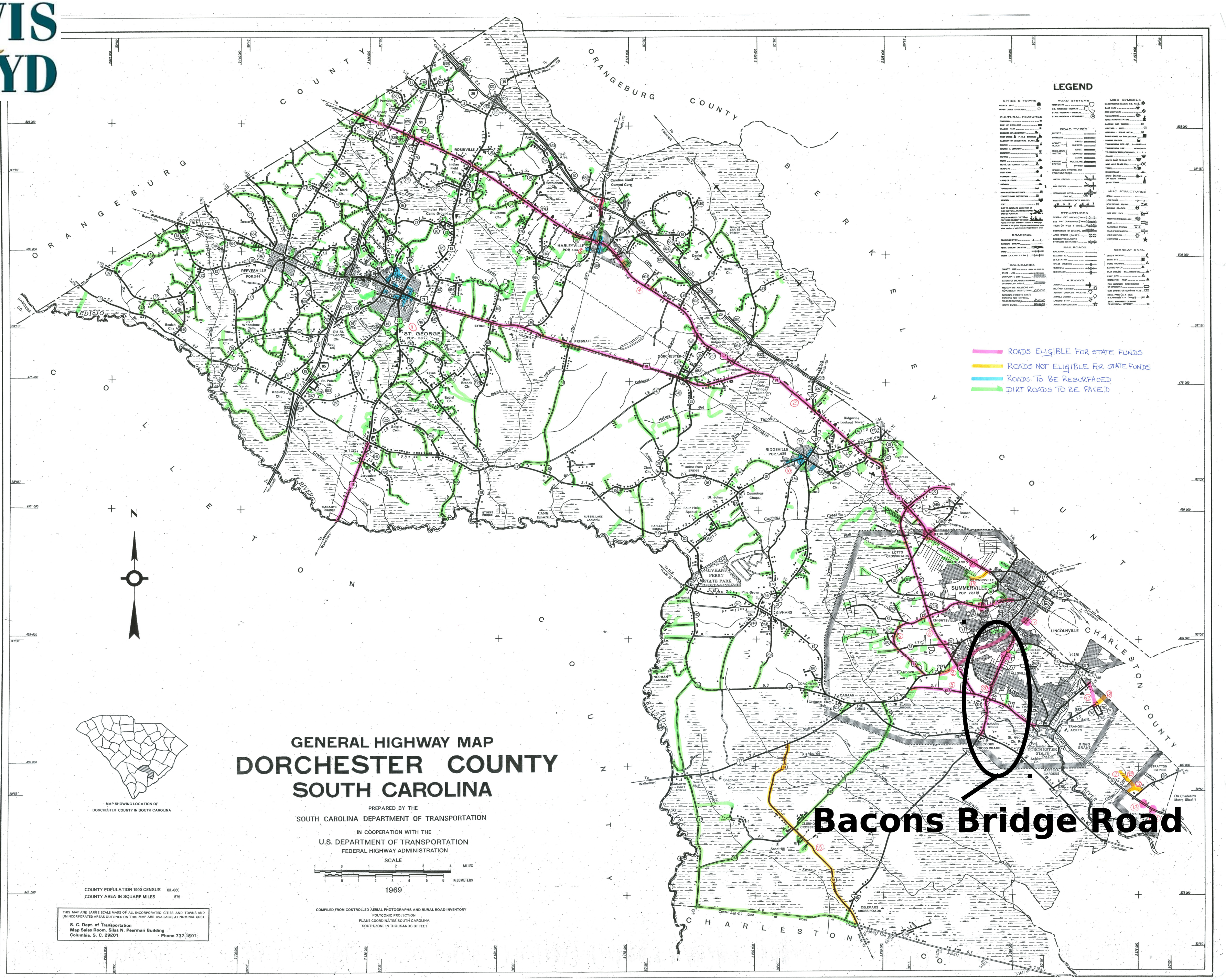
THIS MAP AND LARGE SCALE MAPS OF ALL INCORPORATED CITIES AND TOWNS AND UNINCORPORATED AREAS OUTLINED ON THIS MAP ARE AVAILABLE AT NOMINAL COST.

S. C. Dept. of Transportation
Map Sales Room, Silas N. Pearman Building
Columbia, S. C. 29201 **Phone 737-1501**

🟪 ROADS ELIGIBLE FOR STATE FUNDS
🟨 ROADS NOT ELIGIBLE FOR STATE FUNDS
🟦 ROADS TO BE RESURFACED
🟩 DIRT ROADS TO BE PAVED

COMPLETED JUNE 1969

REVISED			
STATE SYSTEM	COUNTY SYSTEM	STATE SYSTEM	COUNTY SYSTEM
JULY 1, 1969	JAN. 1, 1969	DECEMBER 1, 1980	APRIL 1, 1984
JAN. 1, 1971	JAN. 1, 1970	MARCH 1, 1983	SEPTEMBER 1, 1985
FEB. 1, 1973	JAN. 1, 1972	APRIL 1, 1984	FEBRUARY 1, 1987
JULY 1, 1974	JAN. 1, 1974	SEPTEMBER 1, 1985	APRIL 1, 1988
MAY 1, 1975	JAN 1, 1975	FEBRUARY 1, 1987	
JULY 1, 1976	JULY 1, 1979	APRIL 1, 1988	
JANUARY 1, 1978	DECEMBER 1, 1980	JULY 1, 1992	
JULY 1, 1979	MARCH 1, 1983	JUNE 1, 1994	


ORANGEBURG COUNTY
BERKELEY COUNTY
CHARLESTON COUNTY
COLLETON COUNTY
BAMBERG CO.
LEGEND
ST. GEORGE
HARLEYVILLE
REEVESVILLE
RIDGEVILLE
SUMMERVILLE
ROSINVILLE
GIVHANS FERRY STATE PARK
LINCOLNVILLE
DORCHESTER STATE PARK
EDISTO RIVER
N
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Bacons Bridge Road

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SOUTH CAROLINA

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE
MILES
KILOMETERS

1969

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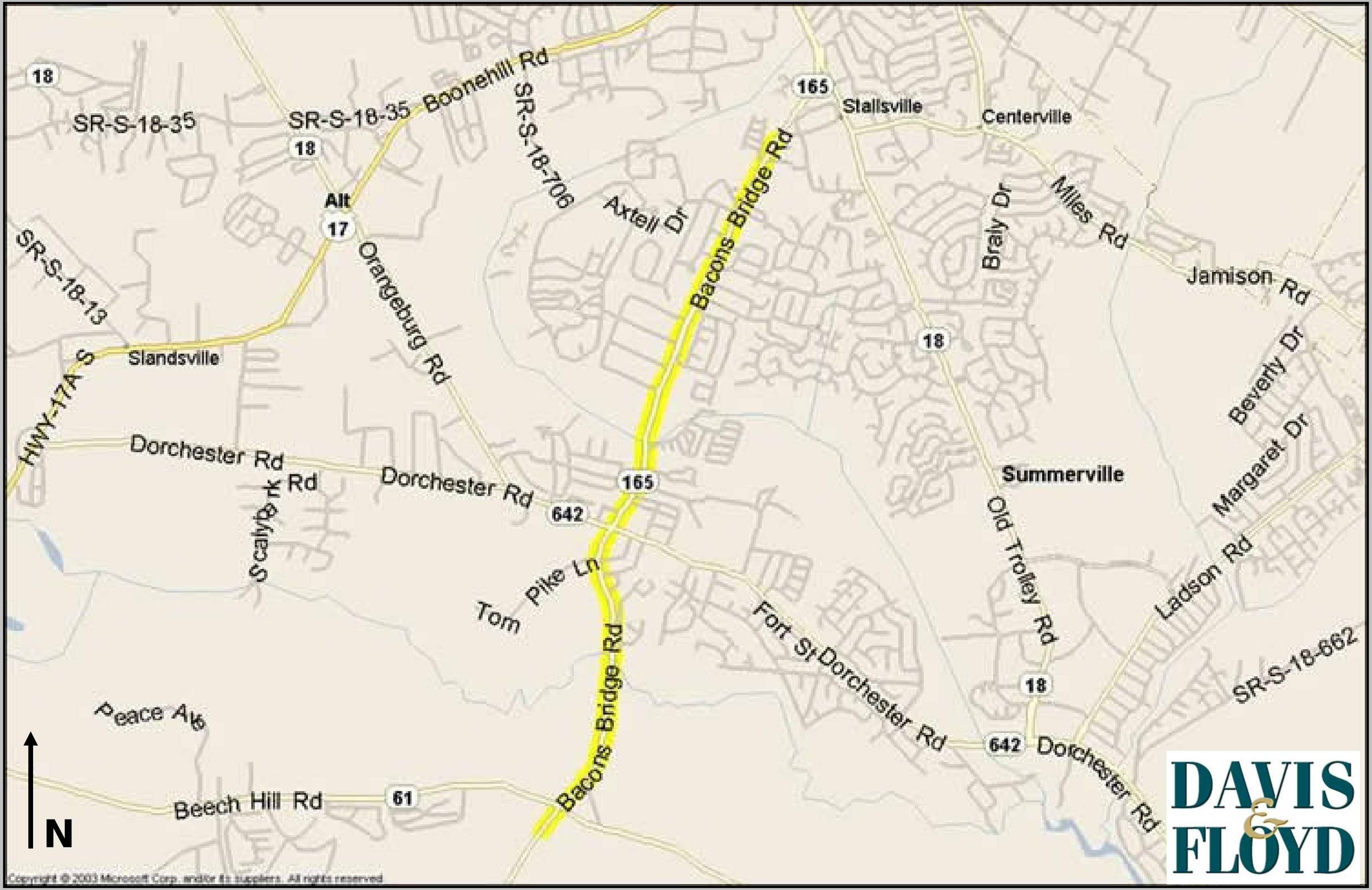
Bacons Bridge Road


18
SR-S-18-35
SR-S-18-35
Boonehill Rd
SR-S-18-706
165
Stallsville
Centerville
18
Alt
17
Axtell Dr
Bacons Bridge Rd
Braly Dr
Miles Rd
SR-S-18-13
Orangeburg Rd
Jamison Rd
18
Slandsville
HWY-17A S
Beverly Dr
Dorchester Rd
Rd
Dorchester Rd
165
Summerville
Margaret Dr
642
Scalybark Rd
Pike Ln
Tom
Old Trolley Rd
Ladson Rd
Fort St
Dorchester Rd
Bacons Bridge Rd
18
SR-S-18-662
Peace Ave
642
Dorchester Rd
Beech Hill Rd
61
Bacons
N

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Bacons Bridge Road

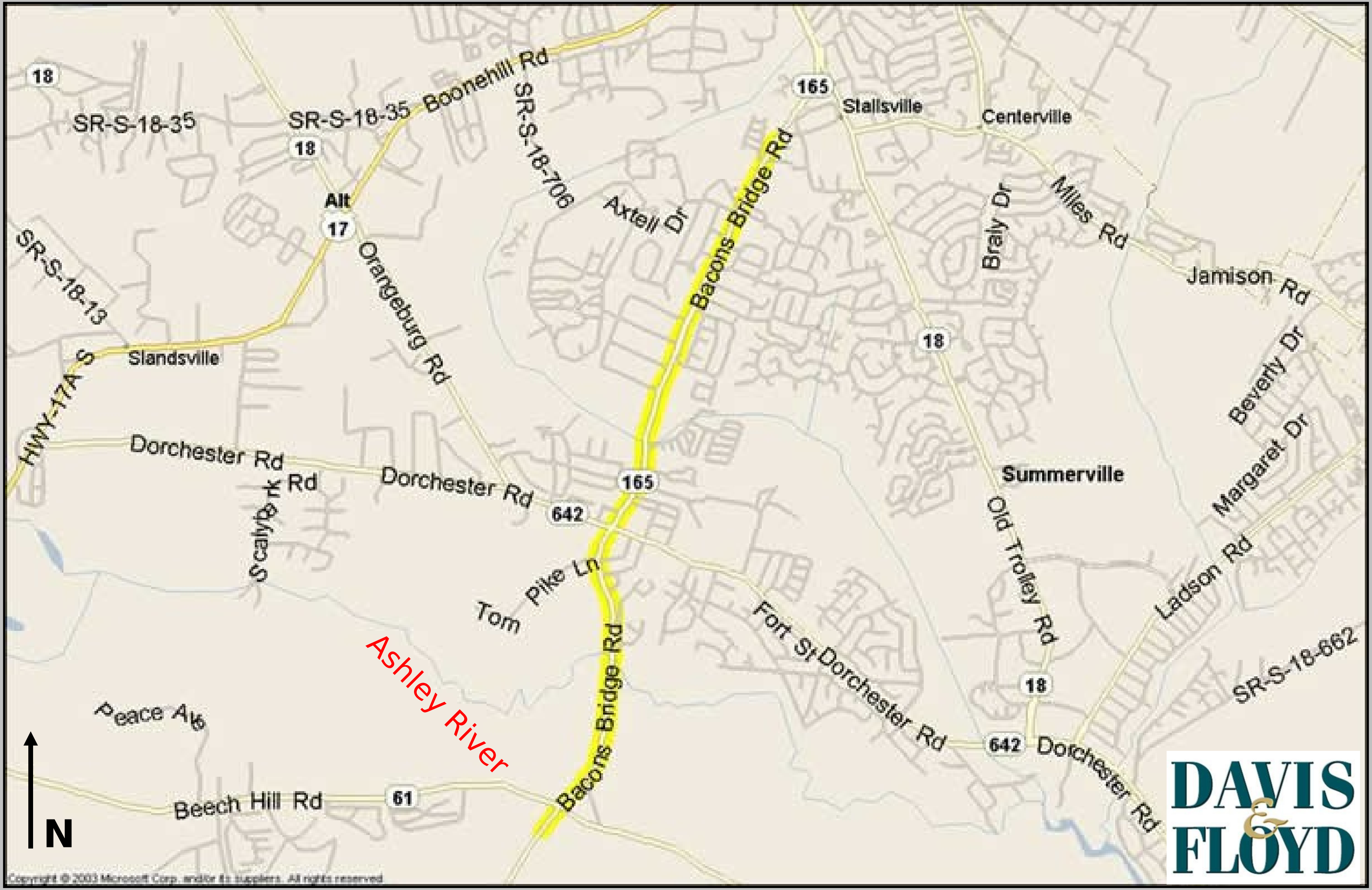
05/22/2005

- 4.0 miles
- From SC Route 61 to present 4 lane
- Improve intersections at Mikel Drive

05/22/2005

- Widen to 5 lane section
- Anticipated construction start in Winter 2009

Bacons Bridge Road



18
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SR-S-18-35
Boonehill Rd
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SR-S-18-706
Axtell Dr
Bacons Bridge Rd
165
Stallsville
Centerville
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Slandsville
HWY-17A S
Orangeburg Rd
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Beverly Dr
Dorchester Rd
Dorchester Rd
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Summerville
Margaret Dr
Scalybark Rd
Tom Pike Ln
Old Trolley Rd
Ladson Rd
Fort St Dorchester Rd
Ashley River
Bacons Bridge Rd
18
SR-S-18-662
Peace Ave
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Dorchester Rd
Beech Hill Rd
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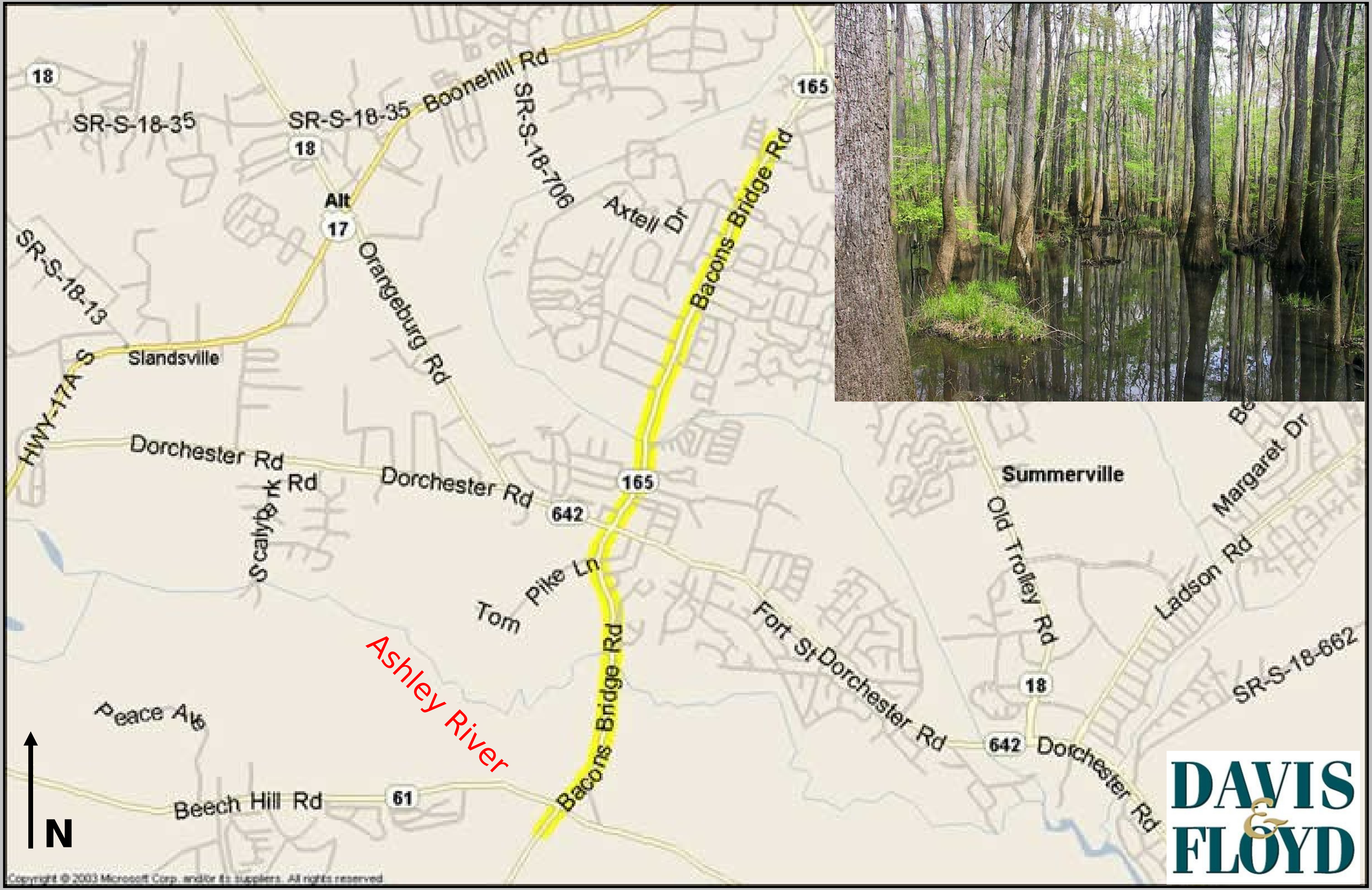
DAVIS & FLOYD

Bacons Bridge Road



18
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Summerville
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Beech Hill Rd
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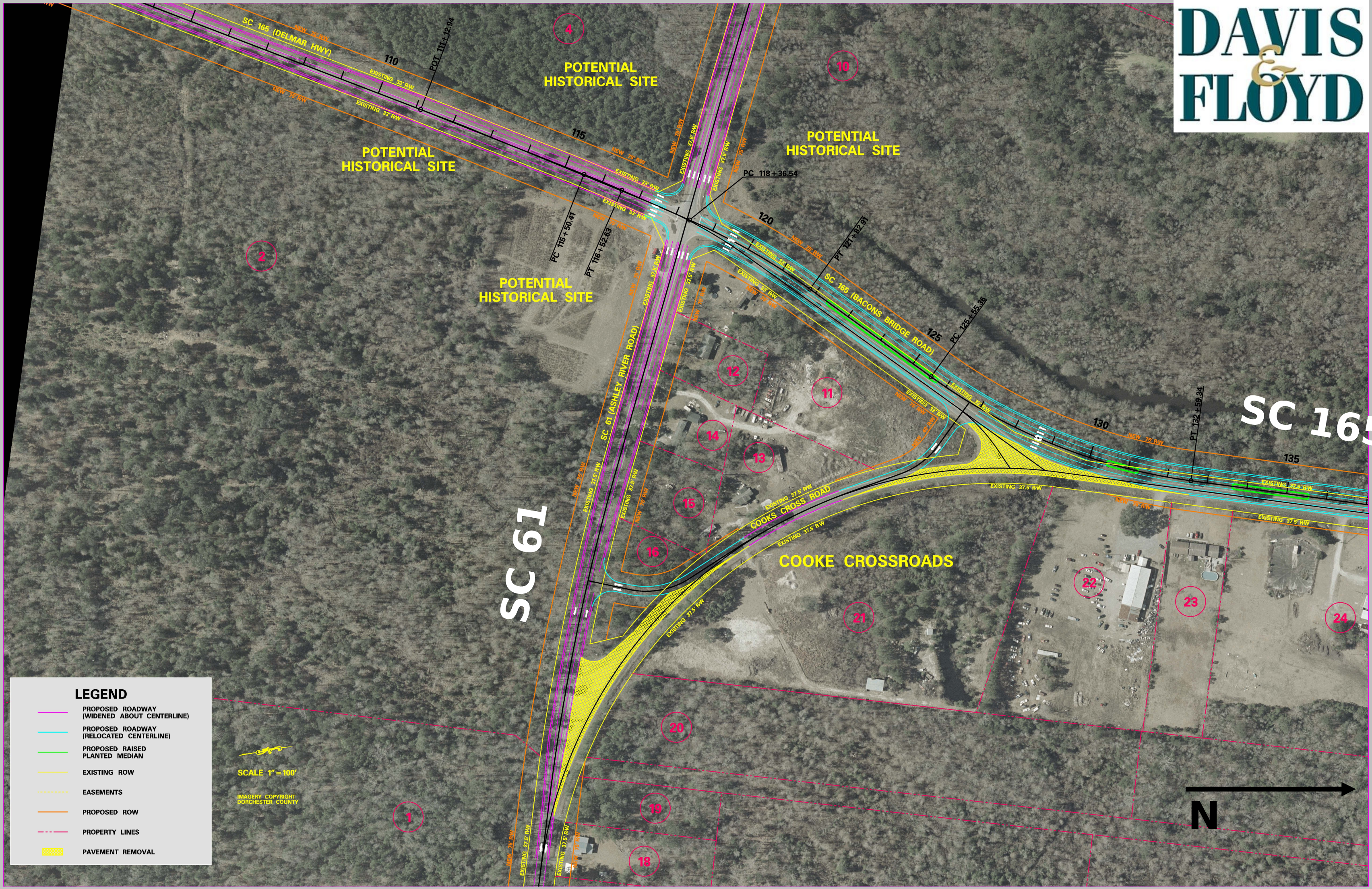
DAVIS & FLOYD

Bacons Bridge Road


SC 165
SC 61
SC 165 (DELMAR HWY)
SC 165 (BACONS BRIDGE ROAD)
SC 61 (ASHLEY RIVER ROAD)
COOKS CROSS ROAD
COOKE CROSSROADS
POTENTIAL HISTORICAL SITE
POTENTIAL HISTORICAL SITE
POTENTIAL HISTORICAL SITE
POTENTIAL HISTORICAL SITE
POT 111+12.94
PC 115+50.41
PT 116+52.63
PC 118+36.54
PT 121+82.91
PC 125+55.36
PT 132+59.34
110
115
120
125
130
135
EXISTING 33' R/W
NEW 75' R/W
EXISTING 37.5' R/W
1
2
4
10
11
12
13
14
15
16
18
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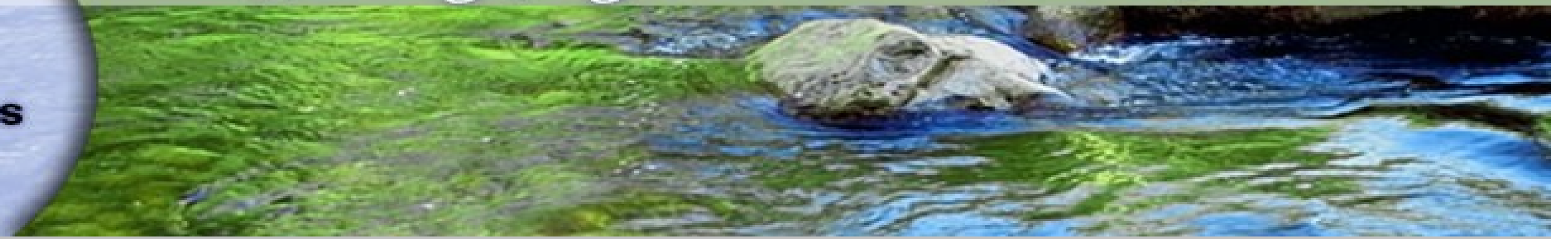
20
21
22
23
24
N
SCALE 1" = 100'
IMAGERY COPYRIGHT DORCHESTER COUNTY
LEGEND
PROPOSED ROADWAY (WIDENED ABOUT CENTERLINE)
PROPOSED ROADWAY (RELOCATED CENTERLINE)
PROPOSED RAISED PLANTED MEDIAN
EXISTING ROW
EASEMENTS
PROPOSED ROW
PROPERTY LINES
PAVEMENT REMOVAL
DAVIS & FLOYD



Advanced Planning Project Report

√ **Helps predict project concerns prior to design and permitting**

√ **APPR checklist provides at a glance summary that agency personnel can quickly use to assess the project**

Three Levels of Permits

- √ **Nationwide Permits**
- √ **SCDOT General Permit**
- √ **Individual Permits**

SCDOT General Permit

(New Alignments Do Not Qualify)

Provisions:

√ no more than 5 acres of fill imp

√ no more than 100 linear feet of
stream impact

Notification required if:

√ impacts between 1 and 5 acres
and/or 75 feet of stream impacts in <1 cfs flows

√ impacts between 1 and 5 acres
and ≥ 50 feet of stream impacts in >1 cfs flows

SCDOT General Permit

(New Alignments Do Not Qualify)

Mitigation Provisions:

Mitigation not required :

√ **≤ 0.1 acre fill and/or 25 linear feet of strea**

Mitigation required :

√ **> 0.1 acre and ≤ 5.0 acre fill**
and > 25 linear feet coastal plain stream = FW Mit Bank
(non-coastal plain stream = mitigate appropriately)

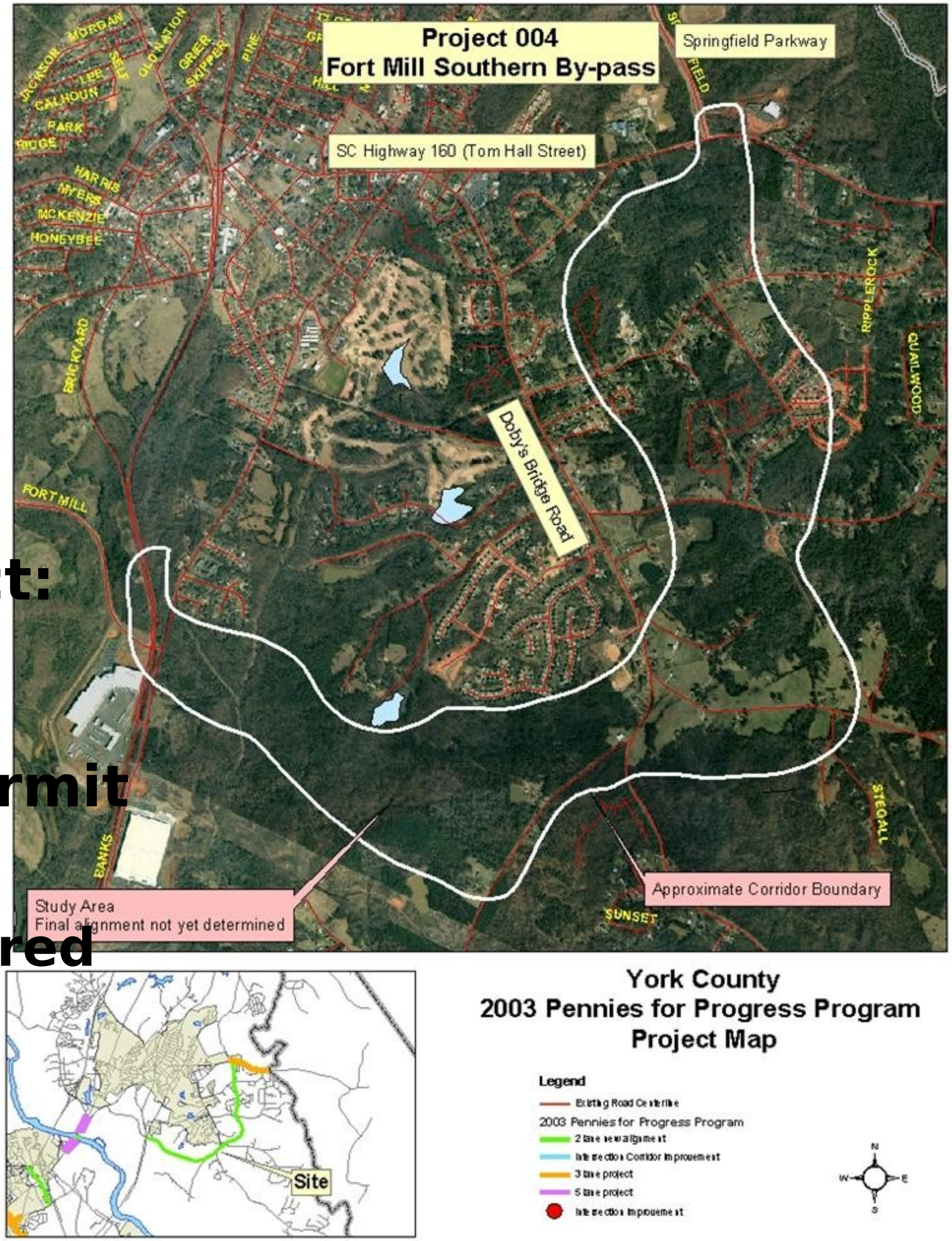
York County

Fort Mill Southern Bypass

New Alignment Project:

Does Not Qualify for Use of the General Permit

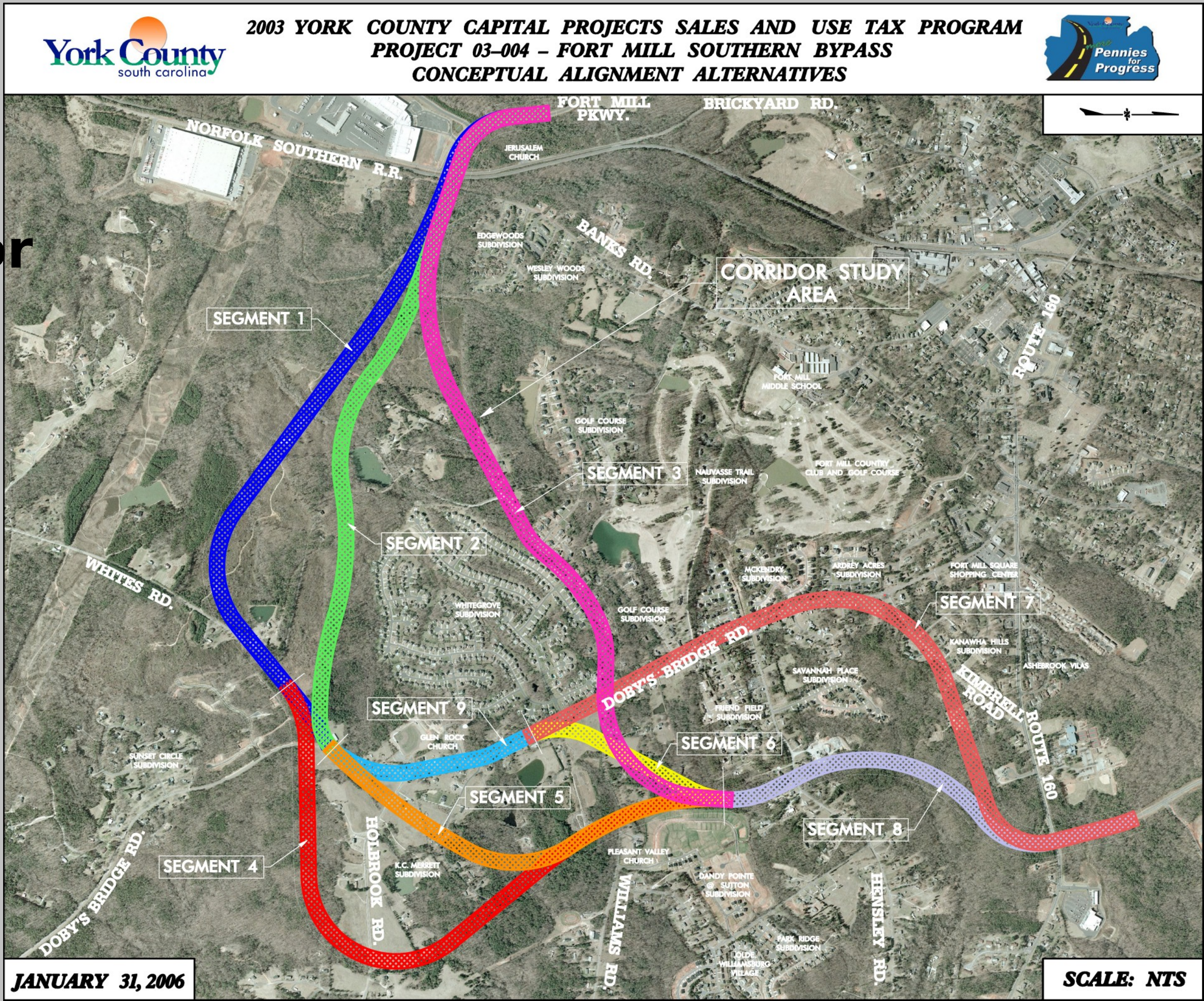
Individual Permit Required

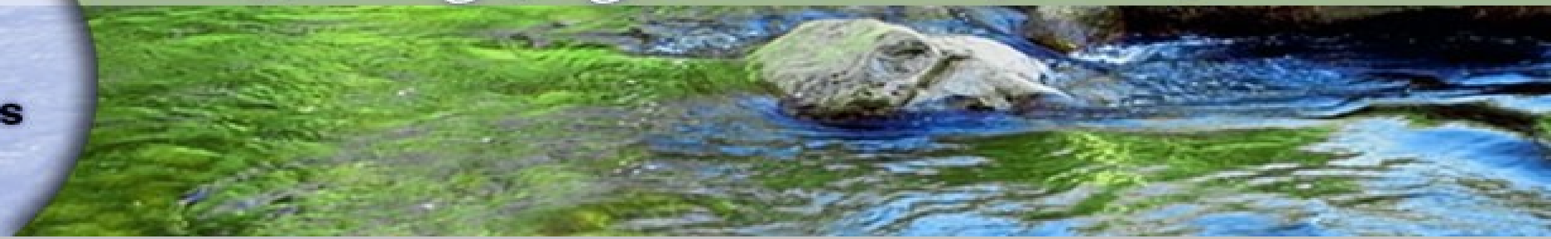

Project 004
Fort Mill Southern By-pass
Springfield Parkway
SC Highway 160 (Tom Hall Street)
Doby's Bridge Road
Approximate Corridor Boundary
Study Area
Final alignment not yet determined
JACKSON
MORGAN
CALHOUN
LEE
SELF
OLD NATION
GREER
SWIPPER
PINE
PARK
RIDGE
HARRIS
MYERS
MCKENZIE
HONEYBEE
BRICKYARD
FORT MILL
BANKS
SUNSET
RIPPLEROCK
QUAILWOOD
STEGALL
Site
York County
2003 Pennies for Progress Program
Project Map
Legend
Existing Road Centerline
2003 Pennies for Progress Program
2 lane new alignment
Intersection Corridor Improvement
3 lane project
5 lane project
Intersection Improvement
N
W
E
S

Fort Mill Southern Bypass - Alternatives

√ **4 mile corridor**

√ **Wildlife concerns**


York County
south carolina
2003 YORK COUNTY CAPITAL PROJECTS SALES AND USE TAX PROGRAM
PROJECT 03–004 – FORT MILL SOUTHERN BYPASS
CONCEPTUAL ALIGNMENT ALTERNATIVES
Pennies for Progress
FORT MILL PKWY.
BRICKYARD RD.
NORFOLK SOUTHERN R.R.
JERUSALEM CHURCH
EDGEWOODS SUBDIVISION
WESLEY WOODS SUBDIVISION
BANKS RD.
CORRIDOR STUDY AREA
ROUTE 160
SEGMENT 1
FORT MILL MIDDLE SCHOOL
GOLF COURSE SUBDIVISION
SEGMENT 3
NAUVASSE TRAIL SUBDIVISION
FORT MILL COUNTRY CLUB AND GOLF COURSE
SEGMENT 2
WHITES RD.
MCKENDRY SUBDIVISION
ARDREY ACRES SUBDIVISION
FORT MILL SQUARE SHOPPING CENTER
WHITEGROVE SUBDIVISION
GOLF COURSE SUBDIVISION
SEGMENT 7
DOBY'S BRIDGE RD.
KANAWHA HILLS SUBDIVISION
ASHEBROOK VILAS
SAVANNAH PLACE SUBDIVISION
KIMBRELL ROAD
SEGMENT 9
FRIEND FIELD SUBDIVISION
GLEN ROCK CHURCH
SEGMENT 6
SUNSET CIRCLE SUBDIVISION
ROUTE 160
SEGMENT 5
SEGMENT 8
HOLBROOK RD.
PLEASANT VALLEY CHURCH
SEGMENT 4
K.C. MERRETT SUBDIVISION
DANDY POINTE @ SUTTON SUBDIVISION
WILLIAMS RD.
HENSLEY RD.
DOBY'S BRIDGE RD.
PARK RIDGE SUBDIVISION
OLDE WILLIAMSBURG VILLAGE
JANUARY 31, 2006
SCALE: NTS



Summary

√ County programs for transportation improvements

i.e. Dorchester, York Counties *Pennies for Progress*

√ Scope projects to minimize environmental permittin

√ Design to meet the lowest possible permit threshold

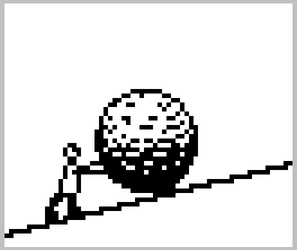
√ Get agency help…comments, field reviews, etc.

Questions ??

Corps of Engineers SCDOT Liaisons

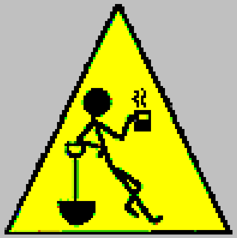
Steve Brumagin
Columbia Field Office

(803) 253-3445



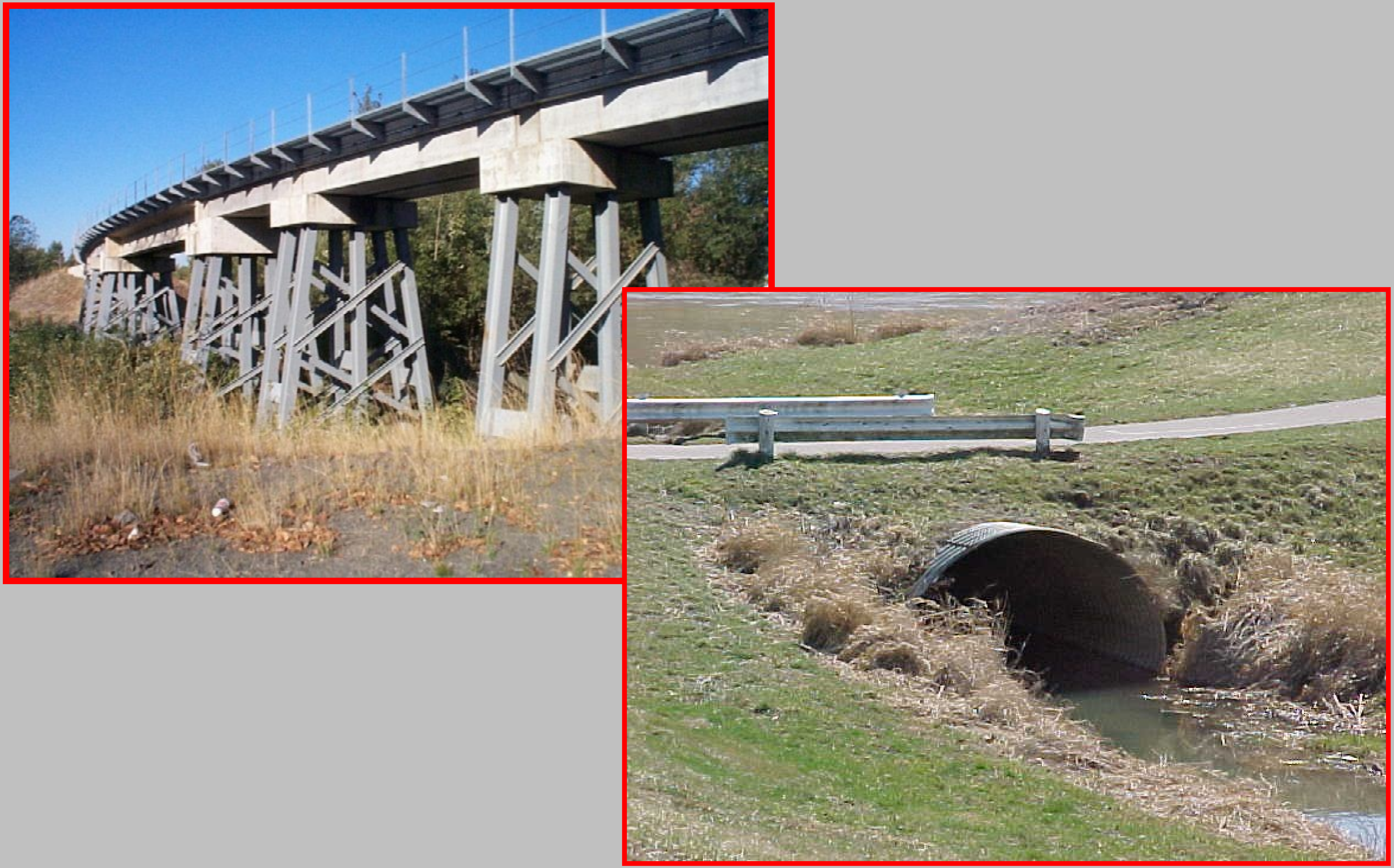
Richard Darden
Charleston District Office

(843) 329-8044
1-866-329-8187 Toll free



SCDOT must maintain existing structure and fill facilities

When do these activities involve permit situations ?



Corps of Engineers Jurisdiction

- **Rivers and Harbors Act**

  regulating navigation within waters of the U

- **Clean Water Act**

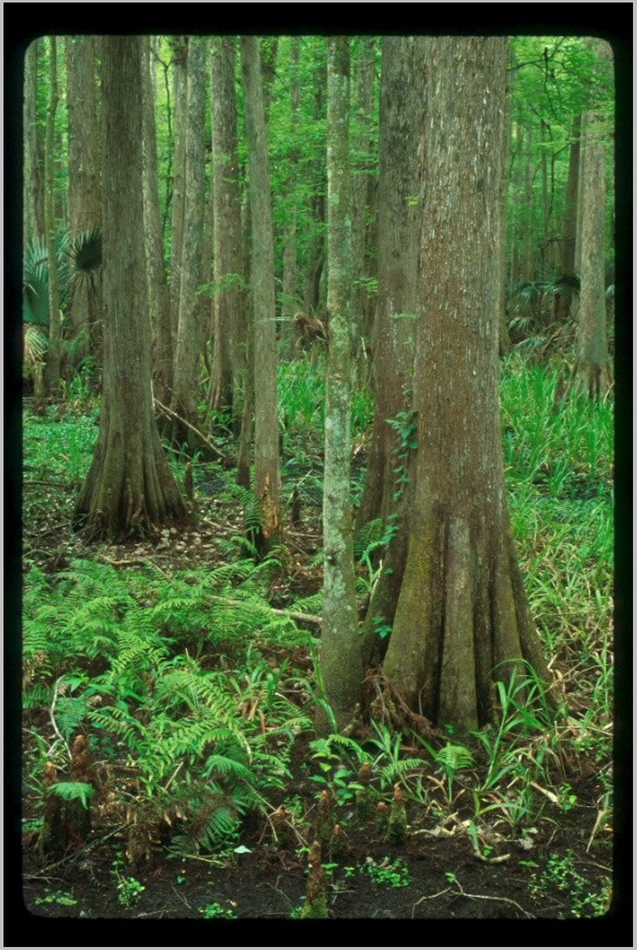
  regulating fill within waters of the U.S.

→ **Waters** = rivers, streams, sloughs, mudflats, sandflats, wetlands, prairie potholes, etc.

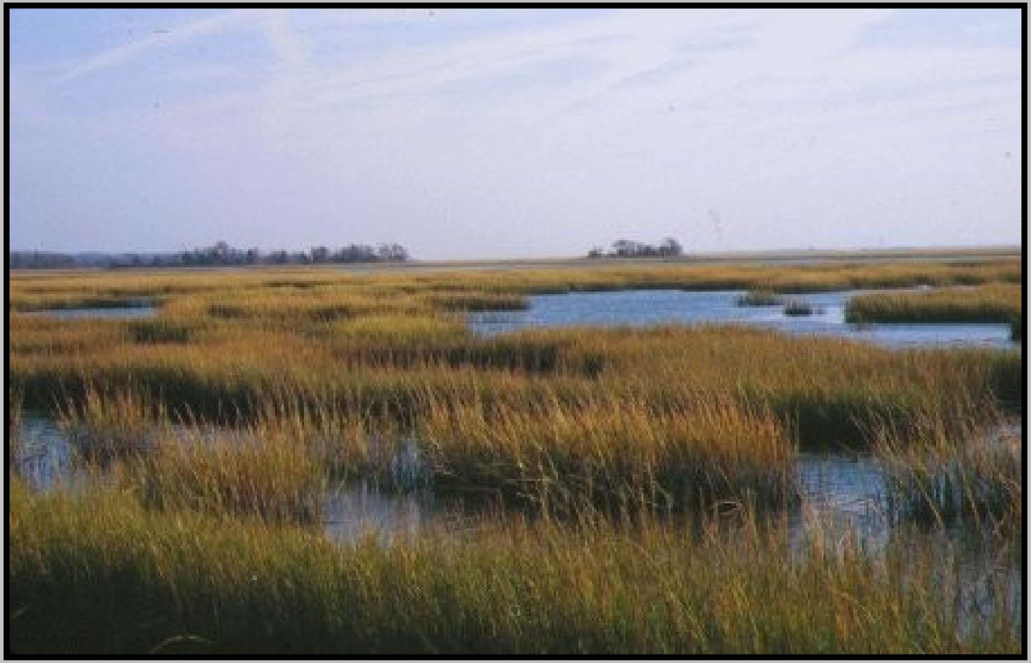
Corps Jurisdiction is Over Waters of the U.S.

Wetlands are included as waters of the U.S.

Recognizing wetlands can be very easy…

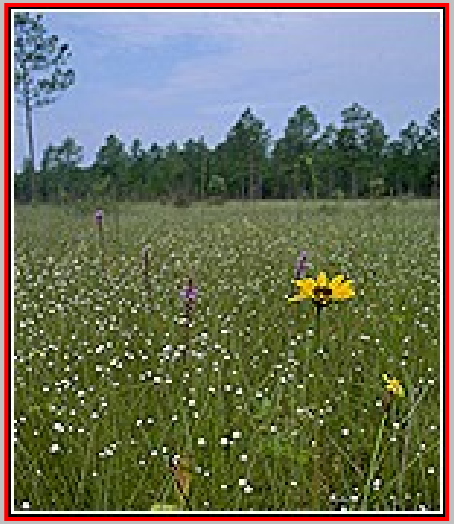


Cypress swamp wetland

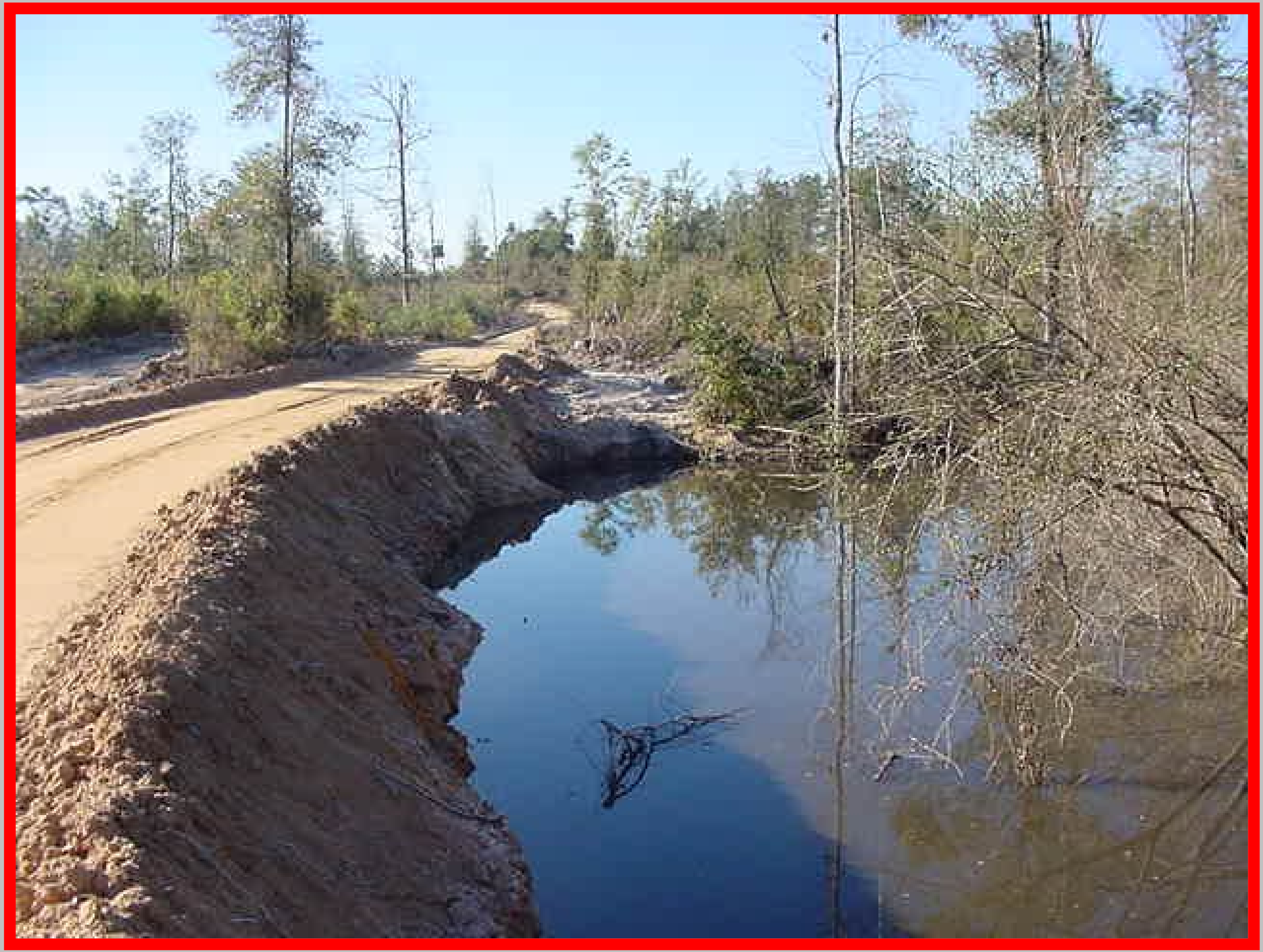


Salt marsh wetland

Or it can be pretty difficult



Regulatory authority pursuant to Section 404 of Clean Water Ac



Corps permit is required for the placement of fill

Important point…

Section 404 of the Clean Water Act provides

permit exemption for maintenance activities

Therefore…

legitimate maintenance activities do not require

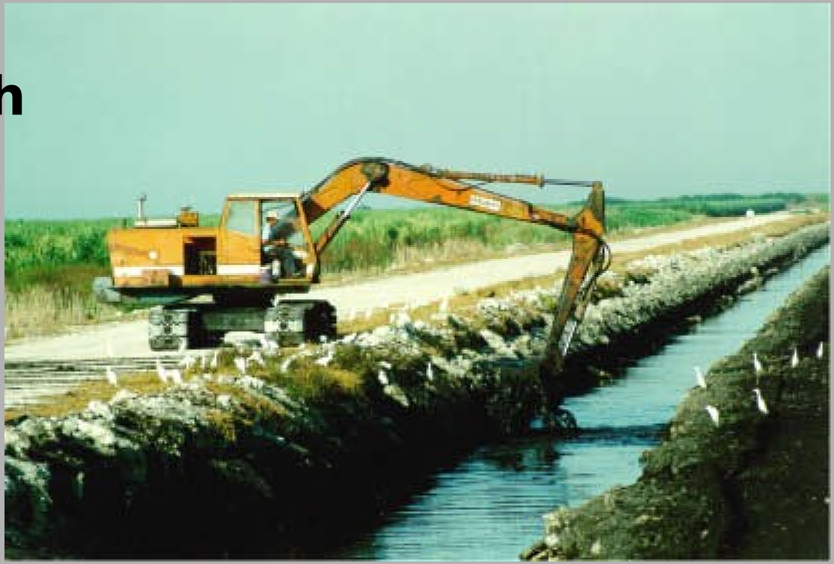
Ditch Cleaning is Necessary Maintenance

Ditch cleaning:

removal of accumulated sediments to return the ditch bottom to its permitted elevation

Haul it off or spread it on site ??

Adjacent deposition of ditch bottom sediments



Note: if spreading sediments into wetlands, do not pile material so as to change the existing elevation of the wetland.

Spread sediments on site when runoff will not return to the ditch.

Haul it off or spread it on site ??

Probably better to haul it off… (although it's not required)

otherwise the sediments will quickly run back into the ditch

Nationwide Permits

NWPs authorize certain specific minor activities that are usually not controversial and would result in little or no public or resource agency comment if they were reviewe through the standard permit process.

Discretionary authority, regional conditions, and the pre- construction notification process are essential elements of the NWP program…

…and are designed to ensure that NWP activities result i more than minimal adverse effects on the aquatic enviro

For Maintenance:

Nationwide Permit 3

Authorizes repair, rehabilitation or replacement of any:

- Previously authorized (permitted) currently serviceable structure or fill

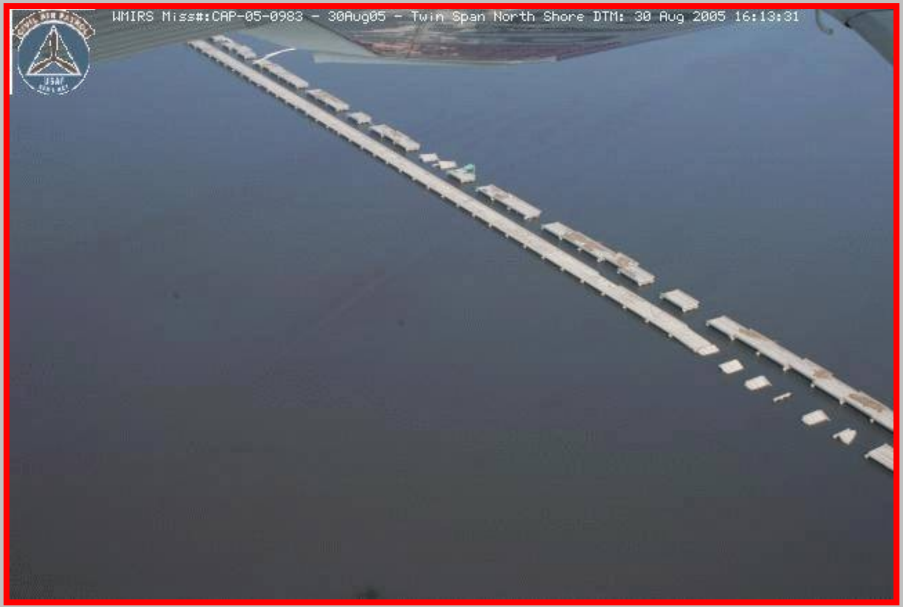
Currently serviceable means that the structure or fill is usable as is or with some maintenance, but is not so degraded as to essentially require reconstruction.

Minor deviations are permitted provided the environmental im
from the maintenance activity are minimal.

Emergency Maintenance

Clean Water Act and NWP 3 authorize response to damage by:

- storms
- floods
- fires
- other **discrete** events


WMIRS Miss#:CAP-05-0983 - 30Aug05 - Twin Span North Shore DTM: 30 Aug 2005 16:13:31

I-10 between New Orleans and Slidell, LA

Culvert Replacement

Minor work of this type can usually qualify as legitimate maintenance

Authorized to repair or replace because of damage or impaired function

Replacements that involve more than minor work will not qualify as maintenance

These larger structures can be authorized under NWP 14 for Road Crossing

Provided that:

- not restrict flows
- not restrict animal movement
- notification is given
- no more than 1/3 acre fill
- no more than 200 linear feet

Replacements that involve more than minor work will not qualify as maintenance

SCDOT General Permit

Provided that:

- not restrict flows
- not restrict animal movement
- notification is given
- no more than 5 acres fill
- no more than 100 linear feet

Does increasing the width of the shoulder qualify as maintenance according to the Clean Water Act or NWP program?

Shoulder widening is not considered maintenance

and is not permitted in wetlands without a permit

NWP 3 does not authorize any significant increase in the original structure or fill

SCDOT General Permit would apply, depending on the site conditions

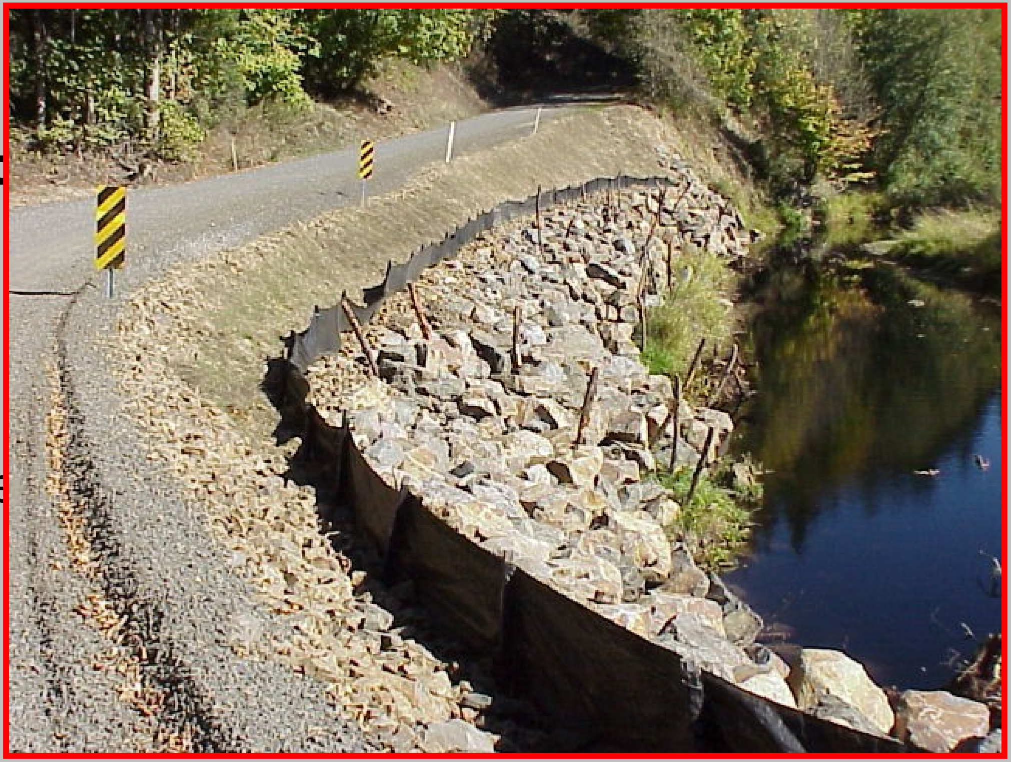
Does increasing the area impacted by bank stabilization structures qualify as maintenance according to the Clean Water Act or NWP program?

Rip Rap Placement

Bank Stabilization is not maintenance

NWP 13 allows for the placement of rock protect within a watercourse

This allows placement of rock rip rap along a waterway for the protection of roadways, fills and bridge abutments.



Bank Stabilization (NWP 13)

Provisions:

- **≤ 500 linear feet**
- **≤ 1 cubic yard (avg) per running foot below the ordinary high water line**
- **does not impede flow**
- **no fill in wetlands**

Rip Rap Placement

NWP 13 allows for the placement of rock protection within a watercourse…

Rip rap placement is not allowed in wetlands. This permit applies to waterways with steeper slopes.

Erosion and Sedimentation Control

Regardless of project size, always use appropriate Best Management Practices which must include the on-site control of sediments.

Erosion and Sedimentation BMPs can be as simple as seeding and mulching, placing silt fence, or protecting disturbed earth with non-erodible material (rock).

Adding rip rap to an existing exposed culvert in wetlands is not considered maintenance.